

AMENDMENTS TO THE CLAIMS

The following claim listing is to replace all previous claim listings. Amendments to the claims are illustrated through strikethrough (for deleted matter) and underlining (for added matter).

CLAIM LISTING

1. (currently amended): A method, comprising:
selecting multiple data sources connected to an identity integration system,
wherein:
the identity integration system includes a management agent for each
of the multiple data sources to manage data communication between the
identity integration system and each respective data source;
for at least some of the multiple data sources a management agent
for the data source is configured with credentials to perform password
management; and
for at least one of the multiple data sources a management agent for
the data source calls for custom logic, from a custom logic source outside
the identity integration system, to perform password management for the
data source; and
performing a password operation on a password associated with at least one
of the multiple data sources, wherein the password operation is performed using
the identity integration system.

1 2. (original): The method as recited in claim 1, further comprising:
2 determining an identity of a user, wherein the multiple data sources are
3 associated with the identity; and
4 querying the identity integration system to find the multiple data sources
5 associated with the identity.

6
7 3. (original): The method as recited in claim 1, wherein the password
8 operation comprises updating one or more passwords associated with the multiple
9 data sources using joined objects across the multiple data sources, wherein the
10 joined objects are stored in the identity integration system.

11
12 4. (original): The method as recited in claim 3, wherein some of the
13 multiple passwords are updated to new passwords that differ from each other.

14
15 5. (original): The method as recited in claim 3, wherein each of the
16 multiple passwords is updated to the same password.

17
18 6. (original): The method as recited in claim 1, wherein the password
19 operation comprises one of changing, setting and resetting the password.

20
21 7. (original): The method as recited in claim 1, wherein each of the
22 multiple data sources differ from others of the multiple data sources with respect
23 to at least one of a protocol, a platform, a format, and a data transmission medium
24 for data storage.

1 8. (original): The method as recited in claim 1, wherein each of the
2 multiple data sources differs in a connection to the identity integration system with
3 respect to at least one of a protocol, a platform, a format, and a data transmission
4 medium for data storage.

5
6 9. (original): The method as recited in claim 1, wherein each of the
7 multiple data sources uses a different password management function.

8
9 10. (original): The method as recited in claim 9, wherein the identity
10 integration system performs password management for each of the multiple data
11 sources.

12
13 11. (original): The method as recited in claim 1, wherein for at least
14 some of the multiple data sources the identity integration system stores integrated
15 identity information to perform password management.

16
17 12. (cancelled).

18
19 13. (cancelled).

20
21 14. (cancelled).

22
23 15. (original): The method as recited in claim 1, further comprising
24 using the identity integration system to produce a list of user accounts associated
25

1 with the multiple data sources, wherein the user accounts on the list are eligible for
2 password management.

3
4 16. (original): The method as recited in claim 1, further comprising
5 allowing access to the identity integration system through a web application for
6 password management.

7
8 17. (original): The method as recited in claim 16, wherein the selecting
9 multiple data sources and the performing a password operation are performed on a
10 website generated by the web application.

11
12 18. (original): The method as recited in claim 17, wherein the web
13 application accepts a password credential from a user to perform the password
14 operation.

15
16 19. (original): The method as recited in claim 17, wherein the web
17 application verifies an identity of a user by asking the user questions, wherein if
18 answers provided by the user are correct then the web application performs the
19 password operation using the identity of a privileged user account.

20
21 20. (original): The method as recited in claim 17, further comprising
22 using the identity integration system to produce a list of user accounts displayable
23 on the website, wherein the user accounts are associated with the multiple data
24 sources.

1 21. (original): The method as recited in claim 17, further comprising a
2 help desk to at least assist in the performing a password operation.

3
4 22. (original): The method as recited in claim 17, further comprising
5 communicatively coupling the identity integration system with the web application
6 using an interface.

7
8 23. (original): The method as recited in claim 22, wherein the interface
9 is publicly available.

10
11 24. (original): The method as recited in claim 22, wherein the interface
12 allows a web application designer to customize the web application.

13
14 25. (original): The method as recited in claim 22, wherein the interface
15 includes password management functions.

16
17 26. (original): The method as recited in claim 22, wherein the interface
18 is capable of being changed for an improved version of the interface that adds
19 more password management functions while using the same web application and
20 the same identity integration system.

21
22 27. (original): The method as recited in claim 22, wherein the interface
23 is a WINDOWS MANAGEMENT INSTRUMENTATION interface.

1 28. (original): The method as recited in claim 27, wherein the interface
2 is secured using a security group.

3
4 29. (original): The method as recited in claim 28, wherein the interface
5 is secured using a security group that allows both searching for a connector object
6 associated with a data source and setting a password for an object in the data
7 source, wherein a connector object represents at least part of the data source in the
8 identity integration system.

9
10 30. (original): The method as recited in claim 1, wherein an identity of a
11 user associated with the multiple data sources provides a security credential for
12 performing a password operation.

13
14 31. (original): The method as recited in claim 17, wherein the web
15 application produces a list of accounts associated with a user.

16
17 32. (original): The method as recited in claim 31, wherein the web
18 application lists only accounts eligible for password management.

19
20 33. (original): The method as recited in claim 17, wherein the web
21 application adopts a web application behavior based on a configuration setting.

22
23 34. (original): The method as recited in claim 33, wherein the
24 configuration setting is stored in a configuration file.

1 35. (original): The method as recited in claim 17, wherein the web
2 application checks if one of the data sources is communicating before updating a
3 password associated with the data source.

4
5 36. (original): The method as recited in claim 35, wherein the updating
6 comprises one of changing and setting the password.

7
8 37. (original): The method as recited in claim 17, wherein the web
9 application checks if a connection to one of the data sources is secure before
10 updating a password associated with the data source.

11
12 38. (original): The method as recited in claim 37, wherein the updating
13 comprises one of changing and setting the password.

14
15 39. (original): The method as recited in claim 1, further comprising
16 displaying a status for the password operation.

17
18 40. (original): The method as recited in claim 39, further comprising
19 displaying the status on a webpage.

20
21 41. (original): The method as recited in claim 1, further comprising
22 auditing the password operation.

23
24 42. (original): The method as recited in claim 41, further comprising
25 maintaining a password management history for the password operation.

1
2 43. (original): The method as recited in claim 42, further comprising
3 keeping the password management history in a connector space object, wherein
4 the connector space object is included in the identity integration system.
5

6 44. (original): The method as recited in claim 42, wherein the password
7 management history includes a tracking identifier to an audit record of the
8 password operation.
9

10 45. (original): The method as recited in claim 41, further comprising
11 maintaining a repository of audit records for password operations performed using
12 the identity integration system.
13

14 46. (original): The method as recited in claim 45, wherein an audit
15 record for a password operation includes at least one of an identifier of a user
16 associated with the password operation, a tracking identifier to a web application
17 initiating the password operation, a tracking identifier to a connector object
18 associated with the password operation, a tracking identifier to a management
19 agent associated with the password operation, a password operation identifier, a
20 password operation status, a date, and a time.
21

22 47. (original): The method as recited in claim 1, further comprising
23 associating custom logic with a password operation, wherein the custom logic is
24 executed after the password operation is performed.
25

1 48. (original): The method as recited in claim 47, wherein the custom
2 logic sends an email.

3
4 49. (original): The method as recited in claim 47, wherein the custom
5 logic logs password management activity.

6
7 50. (original): The method as recited in claim 47, wherein the custom
8 logic performs a password operation on a subsequent data source not connected to
9 the identity integration system.

10
11 51. (original): The method as recited in claim 1, wherein the password
12 operation further comprises updating passwords in both secure and non-secure
13 data sources within the multiple data sources.

14
15 52. (original): The method as recited in claim 1, wherein the password
16 operation further comprises updating passwords over both secure and non-secure
17 connections to the multiple data sources.

18
19 53. (currently amended): A web application for password management,
20 comprising:

21 a user identifier to find user identity information in an identity integration
22 system, wherein:

23 the identity integration system includes a management agent for each
24 of multiple data sources to manage data communication between the
25 identity integration system and each respective data source;

1 for at least some of the multiple data sources a management agent
2 for the data source is configured with credentials to perform password
3 management; and

4 for at least one of the multiple data sources a management agent for
5 the data source calls for custom logic, from a custom logic source outside
6 the identity integration system, to perform password management for the
7 data source;

8 identity information query logic to search information in the identity
9 integration system for accounts associated with the user;

10 an account lister to display the accounts associated with the user;

11 an account selector to designate at least some of the displayed accounts for
12 password management;

13 a password inputter to determine a new password; and

14 a password manager to request an update of a password associated with an
15 account.

16
17 54. (original): The web application as recited in claim 53, wherein the
18 identity integration system connects with diverse data sources, each data source
19 having a different function for using password security.

20
21 55. (original): The web application as recited in claim 53, further
22 comprising an account status display to show selected accounts and a connection
23 status of each account.

1 56. (original): The web application as recited in claim 53, further
2 comprising a password management status display to display a password
3 management operation status for each account.
4

5 57. (original): The web application as recited in claim 53, further
6 comprising a status checker to verify connectivity and security of a connection
7 between an account and the identity integration system.
8

9 58. (original): The web application as recited in claim 53, further
10 comprising a configuration reader to obtain behavior settings for the web
11 application.
12

13 59. (original): The web application as recited in claim 53, further
14 comprising a custom logic executor to perform custom logic associated with a
15 password management operation.
16

17 60. (original): The web application as recited in claim 53, wherein the
18 account lister lists only accounts eligible for password management.
19

20 61. (currently amended): An interface for coupling an identity
21 integration system with a password management web application, comprising:
22 logic for communicating with the identity integration system, wherein:
23 the identity integration system is capable of updating a password on
24 multiple data sources that use various functions of password updating;
25

1 the identity integration system includes a management agent for each
2 of the multiple data sources to manage data communication between the
3 identity integration system and each respective data source;

4 for at least some of the multiple data sources a management agent
5 for the data source is configured with credentials to perform password
6 management; and

7 for at least one of the multiple data sources a management agent for
8 the data source calls for custom logic, from a custom logic source outside
9 the identity integration system, to perform password management for the
10 data source;

11 logic for communicating with the password management web application;

12 logic for searching for objects in the identity integration system; and

13 logic for checking a connection status between the identity integration
14 system and a data source.

15
16 62. (original): The interface as recited in claim 61, further comprising
17 logic for checking security of a connection between the identity integration system
18 and a data source.

19
20 63. (original): The interface as recited in claim 61, further comprising
21 logic to change a password associated with the data source.

22
23 64. (original): The interface as recited in claim 61, further comprising
24 logic to set a password associated with the data source.

1 65. (currently amended): A password management system, comprising:
2 a identity integration system having a metaverse space for persisting
3 integrated identity information regarding accounts associated with a user and a
4 connector space for persisting information representing multiple data sources
5 connectable to the identity integration system, wherein;

6 the accounts have associated manageable passwords;

7 the identity integration system includes a management agent for each
8 of the multiple data sources to manage data communication between the
9 identity integration system and each respective data source;

10 for at least some of the multiple data sources a management agent
11 for the data source is configured with credentials to perform password
12 management; and

13 for at least one of the multiple data sources a management agent for
14 the data source calls for custom logic, from a custom logic source outside
15 the identity integration system, to perform password management for the
16 data source;

17 a web application for producing a list of the accounts from the identity
18 integration system, for allowing selection of at least some of the accounts, for
19 inputting a password, and for requesting the identity integration system to update
20 passwords on the accounts based on the input password; and

21 an interface to communicatively couple the identity integration system with
22 the web application.
23
24
25

1 66. (original): The password management system as recited in claim 65,
2 wherein the password management web application verifies one of an identity and
3 a credential of a user.
4

5 67. (original): The password management system as recited in claim 65,
6 wherein the web application generates a webpage that displays accounts and a
7 status of a password management operation for each account displayed.
8

9 68. (original): The password management system as recited in claim 65,
10 wherein the web application operates in a security context.
11

12 69. (original): The password management system as recited in claim 68,
13 wherein the security context is an application pool identity.
14

15 70. (original): The password management system as recited in claim 69,
16 further comprising a help desk application, wherein the web application denies a
17 user access to the help desk application if a security group of the user is not
18 approved by the web application.
19

20 71. (original): The password management system as recited in claim 65,
21 wherein the identity integration system stores a password management operation
22 history for each account.
23

24 72. (original): The password management system as recited in claim 65,
25 wherein the identity integration system communicates with diverse accounts, each

1 account having a different mechanism for administering a password associated
2 with the account.

3
4 73. (original): The password management system as recited in claim 72,
5 wherein the identity integration system does not natively communicate with at
6 least some of the diverse accounts.

7
8 74. (currently amended): A management agent for an identity
9 integration system, comprising:

10 logic for adapting a connection for data communication, wherein the
11 connection couples an identity integration system using a first data communication
12 format with a connected data source using a second data communication format;

13 custom logic, from a custom logic source outside of the identity integration
14 system, to perform password management for the data source; and

15 logic for requesting a connected data source to perform a password
16 operation.

17
18 75. (original): The management agent as recited in claim 74, wherein
19 the management agent performs the password operation.

20
21 76. (original): The management agent as recited in claim 74, wherein
22 the management agent requests authorization for performing a password operation.

1 77. (original): The management agent as recited in claim 74, wherein
2 the management agent is configured with credentials to perform a password
3 management operation.

4
5 78. (original): The management agent as recited in claim 74, wherein
6 the management agent is configured with credentials to request a password
7 management operation.

8
9 79. (original): The management agent as recited in claim 74, further
10 comprising logic to perform a call out for custom logic for performing a custom
11 password operation.

12
13 80. (currently amended): In a computer system having a graphical user
14 interface including a display and a user interface selection device, a method of
15 providing and selecting from a menu on the display comprising ~~the steps of:~~

16 retrieving a list of user accounts from an identity integration system having
17 persisted identity information regarding the user accounts wherein:

18 the identity integration system includes a management agent for each
19 of multiple data sources to manage data communication between the
20 identity integration system and each respective data source;

21 for at least some of the multiple data sources a management agent
22 for the data source is configured with credentials to perform password
23 management; and

24 for at least one of the multiple data sources a management agent for
25 the data source calls for custom logic, from a custom logic source outside

1 the identity integration system, to perform password management for the
2 data source;
3 showing the list of user accounts on the display;
4 allowing each account in the list to be selected using the user interface
5 selection device;
6 allowing input of a new password via the user interface selection device;
7 and
8 allowing input of a request to update old passwords associated with the
9 selected accounts to the new password.

10
11 81. (original): The method in the computer system having the graphical
12 user interface as recited in claim 80, further comprising allowing input of user
13 credentials to verify an identity of the user.

14
15 82. (original): One or more computer readable media containing
16 instructions that are executable by a computer to perform actions, comprising:
17 selecting multiple data sources connected to an identity integration system;
18 and
19 for at least one of the multiple data sources, using the identity integration
20 system to perform a password operation.

21
22 83. (original): The one or more computer readable media as recited in
23 claim 82, wherein at least some of the multiple data sources connected to the
24 identity integration system communicate in a manner different than a native
25 communication of the identity integration system.

1
2 84. (original): The one or more computer readable media as recited in
3 claim 82, wherein the identity integration system accomplishes a password update
4 on each of the data sources regardless of whether the data sources connected to the
5 identity integration system communicate in a manner different than a native
6 communication of the identity integration system.
7

8 85. (original): The one or more computer readable media as recited in
9 claim 84, wherein the identity integration system accomplishes a password update
10 on at least one of an ACTIVE DIRECTORY® data source, a SUN ONE server data
11 source, a LOTUS NOTES server data source, a WINDOWS® NT™ server data
12 source, a NOVELL® EDIRECTORY™ server data source, and a flat file data
13 source.
14
15
16
17
18
19
20
21
22
23
24
25